

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application. Applicant has submitted a new complete claim set showing any marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Listing of Claims:

1. (currently amended) A computer-implemented method, comprising:  
decompressing a trie, including:
  - 1)-evaluating a first node of the trie;
  - 2)-determining that the first node includes a tag flag having a setting ~~indicative indicating that of~~ a multiple tag field, ~~that does not contain the tag flag, is~~ attached to the first node; ~~and, and in response 3)-evaluating each~~ settings in the multiple tag field, and for each setting that indicates a tag, associating the first node with a category corresponding to that tag;  
evaluating a second node of the trie; and  
determining that the second node includes a tag flag having a setting indicating that a multiple tag field is not attached to the second node.
2. (original) The method of claim 1 wherein decompressing the trie further comprises, evaluating a tag information field to determine that the trie was constructed to have at least one node with a multiple tag field.

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3. (original) The method of claim 1 wherein the multiple tag field comprises a bitmask, and wherein evaluating each setting in the multiple tag field comprises checking the value of each bit in the bitmask.
4. (original) The method of claim 3 further comprising, evaluating information in a header of the trie to determine a size of the bitmask.
5. (original) The method of claim 1 wherein decompressing the trie further comprises, checking a value field to determine which tags have values associated therewith.
6. (previously presented) The method of claim 1 wherein at least one tag has a value associated therewith, and further comprising, checking a value size array field to determine a size for each value associated with a tag.
7. (original) The method of claim 1 wherein decompressing the trie further comprises, checking a value size array field to determine which tags have values associated therewith.
8. (original) The method of claim 7 further comprising, checking the value size array field to determine a size for each value associated with a tag.
9. (currently amended) The method of claim 1 wherein the first node includes at least one partial enumeration count.

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10. (currently amended) The method of claim 1 wherein the first node includes a partial enumeration count for at least one of the tags.
11. (original) A computer-readable medium having computer-executable instructions for performing the method of claim 1.
12. (new) A computer-readable medium storing information for enabling a device to perform a process, the process comprising:
- determining whether nodes of a trie have respective tag flag settings that indicate whether or not the respective nodes have respective separate multi-tag fields attached thereto, where some of the processed nodes have a tag flag and a separate multi-tag field, and some of the processed nodes have a tag flag and do not have a separate multi-tag field;
  - in response to determinations that nodes have respective tag flag settings indicating that those nodes have respective multi-tag fields attached thereto, accessing settings in the multi-tag fields of those nodes;
  - in response to determinations that nodes have tag flag settings indicating that the nodes do not have respective multi-tag fields attached thereto, handling those nodes in accordance with such determinations.
13. (new) A computer-readable medium according to claim 12, where the process further comprises evaluating a flag of the trie to determine whether the trie is of a type that has multi-tag fields.

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14. (new) A computer-readable medium according to claim 12, where the process further comprises using a mask to determine which tags of the multi-tag fields are active.

15. (new) A device configured to be capable of performing a process, the process comprising:

accessing a trie comprised of nodes, where the nodes comprise respective tag flags, where some of the nodes further comprise respective multi-tag fields, and where some of the nodes do not further comprise multi-tag fields;

determining whether or not nodes have respective multi-tag fields attached thereto by evaluating settings of the respective nodes' tag flags; and

for those of the nodes that have been determined to have multi-tag fields, using the multi-tag fields of those nodes to determine whether those nodes belong to various plural node categories.

16. (new) A device configured according to claim 15, wherein the process further comprises: for those of the nodes that have been determined to not have multi-tag fields, not determining whether those node belong to various plural node categories.

17. (new) A device configured according to claim 15, wherein the multi-tag fields vary in size.

18. (new) A device configured according to claim 15, wherein the process further comprises determining which tags in the multi-tag fields are valid.

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